

## CLAIMS

1. A method for manufacturing a silicon carbide based honeycomb structure, the method using, as a part of a starting material, a recycled raw material recycled from a recovered material generated in a process for manufacturing the silicon carbide based honeycomb structure and derived from a starting material for a silicon carbide based honeycomb structure;

wherein the recycled raw material is pulverized to have an average particle size of 10 to 300  $\mu\text{m}$ .

2. A method for manufacturing a silicon carbide based honeycomb structure according to Claim 1, wherein the recycled raw material accounts for 50% by mass or less of a whole starting raw material.

3. A method for manufacturing a silicon carbide based honeycomb structure, wherein an unpulverized silicon carbide based honeycomb structure and a new raw material are used as a starting material, water is added to the starting material, the starting material is kneaded with being pulverized to give kneaded clay, and a new silicon carbide based honeycomb structure is manufactured by using the kneaded clay.

4. A method for manufacturing a silicon carbide based honeycomb structure according to Claim 3, wherein the unpulverized silicon carbide based honeycomb structure accounts for 50% by mass or less of a whole starting raw material.

5. A method for manufacturing a silicon carbide based honeycomb structure according to Claim 3 or 4, wherein a binder is further added to the starting material for kneading.

6. A silicon carbide based honeycomb structure manufactured by a method according to any one of Claims 1 to 5.